Contents of Volume 11

Volume 11 Number 1 January–February 1989

A simple automated device for the precise addition of liquids
G. W. Kramer, J. M. Hanquier, A. R. Frisbee and P. L. Fuchs 1

Short courses calendar 14

An evaluation of the Monarch chemistry analyser
D. J. Berry and C. P. Price 15

Evaluation of a new instrument offering sodium, potassium and ionized calcium in combination with haematocrit, pH and blood gas analysis; the performance of the Nova Stat Profile 1
S. Schonfield, P. Frost, R. Cramb and C. Royle 22

Calendar 27

Guidelines (1988) for listing specifications of centrifuges
A. Uldall, P. Trier Damgaard, E. Magnussen, O. Drachmann and J. C. Rigg 28

Guidelines (1988) for preparation of laboratory procedure manuals for clinical chemistry
C. G. Fraser, T. D. Geary and H. G. J. Worth 32

Design and operation of an autosampler controlled flow-injection preconcentration system for lead determination by flame atomic absorption spectrometry
S. R. Bysouth, J. F. Tyson and P. B. Stockwell 36

Immunoturbidimetric determination of serum transferrin on a Kone Progress autoanalyser
L. Cynober, J. Le Boucher and J. Giboudeau 40

Computer-Aided Chemistry at Surrey – the way ahead
G. J. Buist, B. Howlin, J. R. Jones and D. C. Povey 42

New products 44

Volume 11 Number 2 March–April 1989

Patterns in clinical chemistry requests
J. B. Hemel, F. R. Hindriks, H. van der Voet and L. R. Rijnveld 55

Application of robotics in the clinical laboratory
R. A. Bunce, P. M. G. Broughton, D. M. Browning, J. E. C. Gibbons and L. J. Kricka 64

Decision-theoretical formulation of the calibration problem
M. Kárný and K. M. Hangos 70

Towards properly controlled analytical measurement methods
K. M. Hangos and L. Leisztner 76

An evaluation of osmolality measurement by freezing point depression using micro-amounts of sample
G. Koumantakis and L. E. Wyndham 80

Sample introduction valve used in ICP-AES for faster analysis
H. Stray 84

Calendar 86

A simple flow-injection method for the determination of blood glucose using a Technicon immobilized enzyme coil
S. Gizurarson 87

Short courses calendar 88

Letter to the Editor: The effects of hyperlipidaemia, hyperbilirubinaemia and haemolysis on tests performed by the Olympus AU 5000 multiple analyser
R. W. Hardy, E. D. Green, F. J. Pikul, D. P. Silva, J. W. Koenig and M. G. Scott 89

New products 91

Volume 11 Number 3 May–June 1989

Guidelines (1988) for training in clinical laboratory management
N. de Cediel, C. G. Fraser, A. Deom, L. Josefsson, H. G. J. Worth and O. Zinder 99

Computerized cyclic voltammetric detection after HPLC of the antineoplastic agents etoposide, teniposide, adriamycin and its metabolite adriamycinol in urine samples
H. H. J. L. Ploegmakers, P. A. Moritz, P. J. M. M. Toll and W. J. van Oort 106

Data acquisition system for chemical kinetic studies
Yuz-hen Zhu, Xin Zhou and Xiang-sheng Zang 113

Effects of system tuning and RAM disk on the performance of a clinical laboratory information system
A. A. Eggert, K. A. Emmerich, T. J. Blankenheim and G. J. Smulka 119

Comparison of seven serum assays on four automatic analysers
L. Sacchetti, D. Cerasuolo, M. Besozzi, A. D'Agostino, C. Franzini and F. Salvatore 124

Computer-based automation of concentration measurements with ion-selective electrodes
J. A. Ibañez, L. Victoria and R. M. Barzanallana 129

Calendar 133

Performance of a reflectometric technique for serum alanine aminotransferase determinations
J. M. W. Keen 134

New products 137

Volume 11 Number 4 July–August 1989

Calibration and measurement control based on Bayes statistics
K. M. Hangos, L. Leisztner, M. Kárný 149

Generation of selenium hydride from alkaline solutions: a new concept of the hydride generation-atomic absorption technique
R. Bye 156

Evaluation of the Hitachi 717 analyser
C. Biosca, F. Antoja, C. Sierra and H. Douezi, M. Macià, M.-J. Alsina and R. Galimany 159

Determination of inorganic phosphorus in serum: Evaluation of three methods applied to the Technicon RA-1000 analyzer
L. Rubino, V. Catapano and G. Guerra 164

Automated medium-pressure modular liquid-gas reactor
C. Porte, F. Hamdan and A. Delacroix 168

The significance of indirect costs–application to clinical laboratory test economics using computer facilities
F. R. Hindriks, A. Bosman and P. F. Rademaker 174

New products 179

Volume 11 Number 5 September–October 1989

Evaluation of an automatic gas chromatographic system for the identification of bacterial infective agents
C. Arcelloni, A. Griffini, R. Paroni and P. A. Bonini 191

Critical care analytes: pre-analytical factors affecting result quality for combined blood gas and electrolyte systems
R. F. Moran and A. Feuillu 201

Multicentre evaluation of the Monarch (IL) clinical chemistry analyser
F. Ceriotti, E. Evagnellini, F. Zoppi, N. Montalbetti, C. Okely and P. Bonini 206

Computer-assisted automatic synthesis II. Development of a fully automated apparatus for preparing substituted N-(carboxyalkyl)amino acids
Nobuyoshi Hayashi, Tohru Sugawara, Motoaki Shintani and Shinji Kato 212

Evaluation of the Radiometer 'ABL4' pH/blood gask/K^+/Hb analyser
B. Beneteau-Burnat, M. Vaubourdolle, M. Kebede, R. Kowalezyk and J. Giboudeau 221

International Federation of Clinical Chemistry (IFCC): Education Division, Expert Panel of Quantities and Units: *A Protocol for the Conversion of Clinical Laboratory Data*
H. P. Lehmann, H. G. J. Worth and O. Zinder 223

Computer-controlled apparatus for automated development of continuous flow methods
P. D. Wentzell, M. J. Hatton, P. M. Shiundu, R. M. Ree, A. P. Wade, D. Betteridge and T. J. Sly 227

International Federation of Clinical Chemistry (IFCC): Scientific Division, Committee on pH, Blood Gases and Electrolytes: *Guidelines for Transcutaneous p_{O2} and p_{CO2} Measurement*
P. D. Wimberley, R. W. Burnett, A. K. Covington, A. H. J. Maas, O. Mueller-Plathe, O. Siggaard-Andersen, H. F. Weisberg, and W. G. Zijstra 235

New products 240

Volume 11 Number 6 November–December 1989

Application of a computer-controlled adsorber/desorber system to monitor mercury in air or gas samples: Part 1. Calibration and system description
L. Ebdon, W. T. Corns, P. B. Stockwell and P. M. Stockwell 247

Comparative interference by haemolysis in automated assays for bilirubin at multiple analyte concentrations
R. A. Webster, P. Molnar and S. E. Kahn 254

Calibration in process monitoring by using unsegmented continuous-flow systems
M. D. Luque de Castro and M. Valcárcel 260

Assessment of recently developed blood gas analysers: a Multicentre evaluation
B. Gouget, Y. Gourmelin, A. Feuillu, F. Blanchet, B. Capolaghi, M. Lagente, G. Lardet, J. C. Manceaux and A. Truchaud 266

An evaluation of the Diamat HPLC analyser for simultaneous determination of haemoglobins A_2 and F
A. Mosca, A. Carpinelli, R. Majavacca, A. Cantu'-Rajnoldi, M. Garatti, R. Paleari, M. Ferrari, V. Agape, L. Maccioni, S. Pisano and R. Galanello 273

Automated HPLC monitoring of broth components on bioreactors
E. Favre, P. Pugeaud, J. P. Raboud and P. Péringer 280

New products 284

Index of Authors 289